



Dell Latitude D620 Teardown

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INTRODUCTION

The Dell latitude D620 was introduced in March 2006. Both the first MacBook Pro, and this Dell Latitude D620 have the same Intel core duo T2300E. Like the first MacBook, they both have Intel's GMA 950 graphics.



TOOLS:

- [Metal Spudger](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
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Step 1 — Dell Latitude D620 Teardown



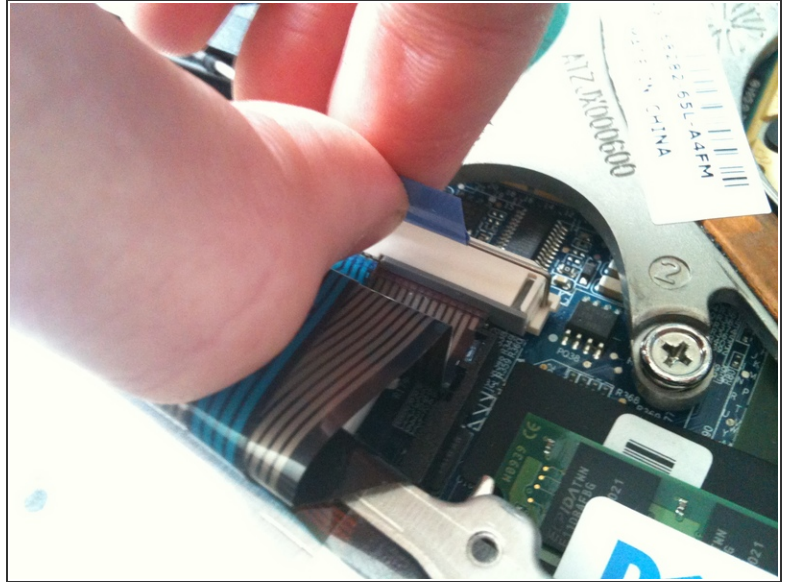
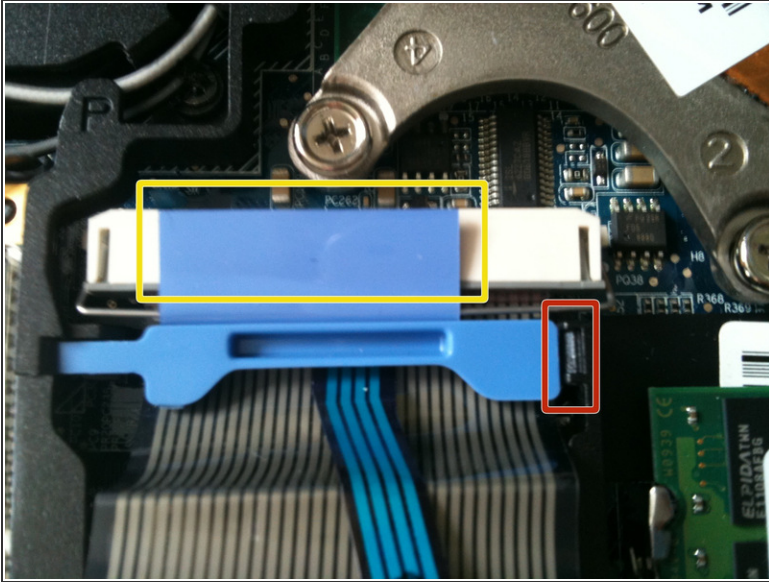
- Open the screen up all the way to 180 degrees. The LCD screen should be laying flat as well as the keyboard.
- Use a flat head screwdriver to pry the D620 nameplate off from the right side edge.
- 'On the right and left sides of the nameplate gently lift it to show the 3 keyboard retaining screws.
- Remove the 3 screws with the screwdriver.

Step 2



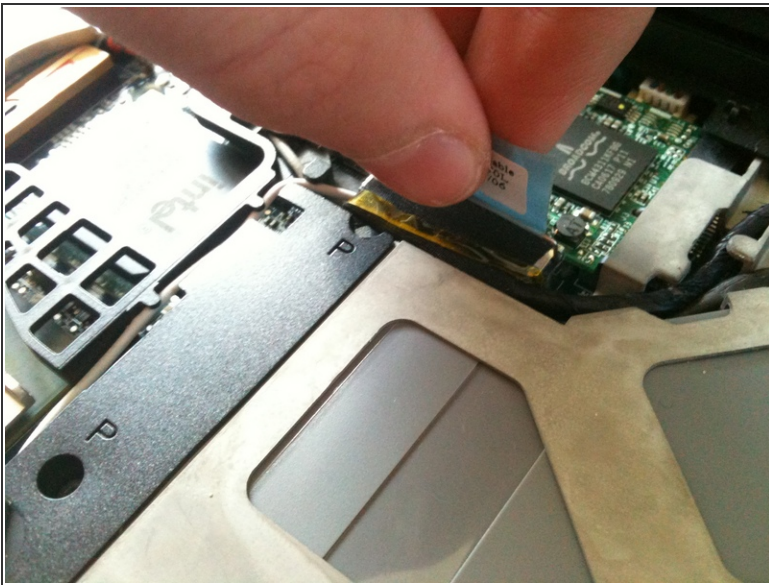
- Use your fingers to lift up the keyboard to a 30 degree angle use the picture to the left as a guide.
 - Carefully pull the keyboard upwards toward the LCD screen so it can be released from the bottom tabs.
- ⚠ Gently flip the keyboard over so the keys are on the track pad. This will expose the keyboard connector.

Step 3



- Insert a small flat head screw driver into the slot shown. Pry the blue latch up to release the cable.
- Use the pull tab to pull the keyboard connector straight up from the logic board

Step 4



- Disconnect the display connector by pulling it upwards from the logic board.

Step 5



- Use a tool to remove the antenna cables. Any tool will work as long the antenna will be removed.

Step 6



- Push the metal clips away from the WLAN card.
- The card should rise up at a 45 degree angle
- Delete the words "straight out."

Step 7



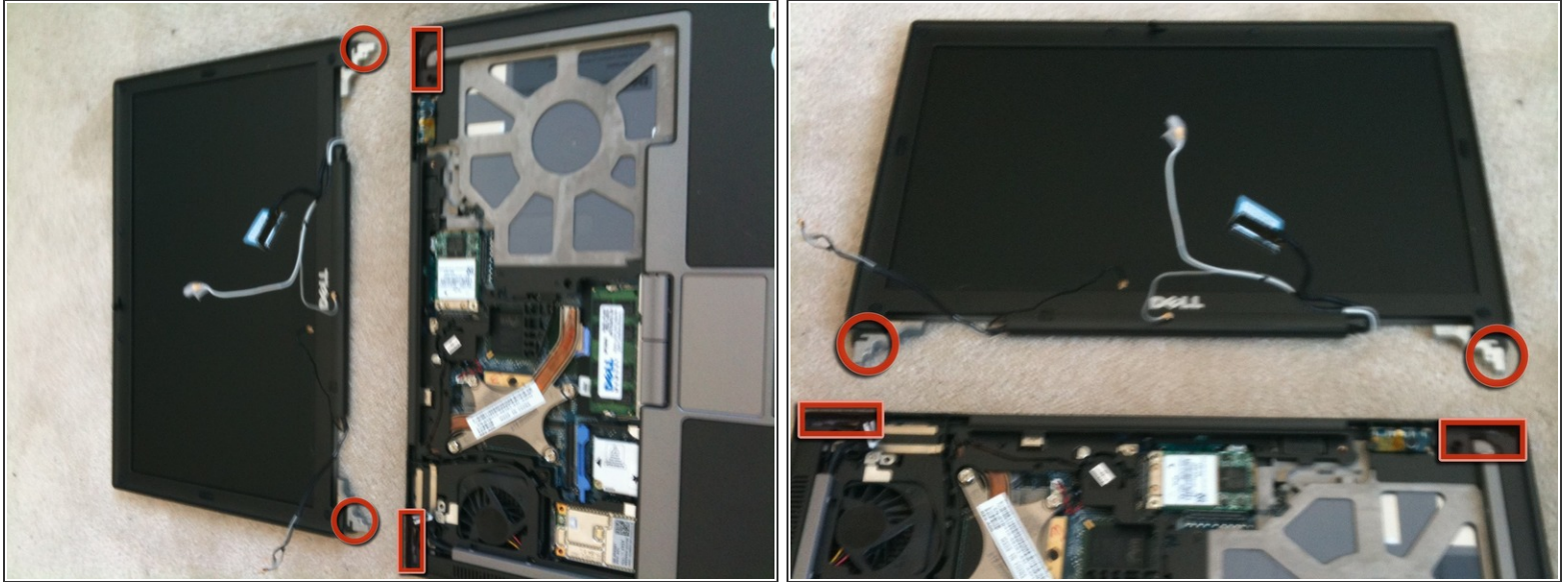
- Remove the antenna cable from the WWAN card.
- Push the tabs. (Transfer this bullet step to the bullet step below)
- Push the tabs, the card will pop up to a 45 degree angle.
- Remove the card by pulling it away from the unit.
- This only applies if you have a WWAN Card, as not all computers have a WWAN card.

Step 8



- Close the screen of the laptop completely.
- Make sure the cables do not get damaged by the LCD screen or the logic board.
- With a screwdriver, remove the two screws that are circled in the picture.
- The bottom screw is labeled with a "D".

Step 9



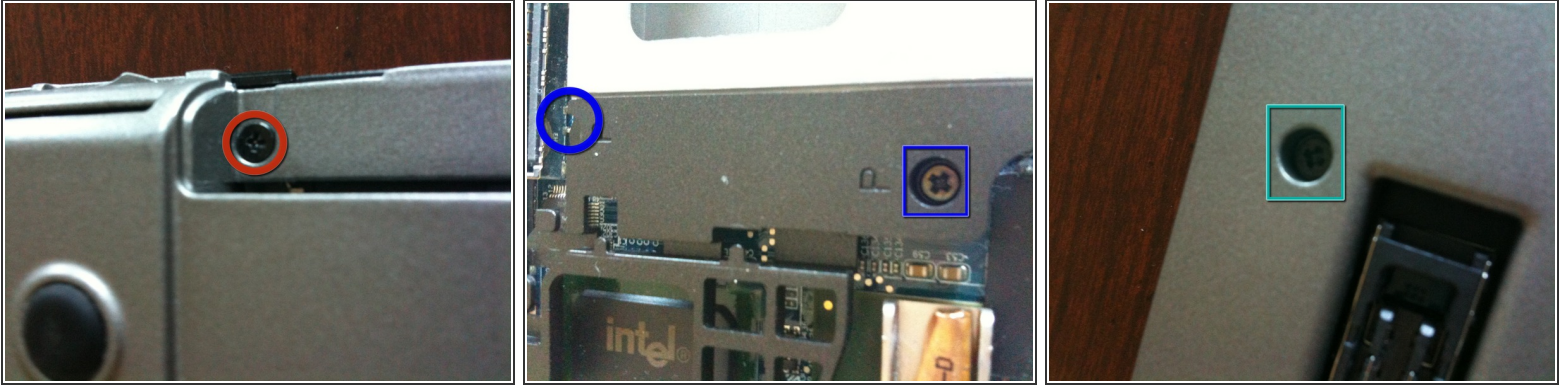
- Open up the display carefully to avoid damaging the content inside of the display.
- Pull the display straight out from the bottom assembly.

Step 10



- The D620 should like the one displayed in the picture to the left.
- Before continuing, remove the hard drive and the DVD drive.
- Hard drive (Delete)
- DVD drive (Delete)
- Disconnect the CMOS battery . Re-enter the time and date. This battery is what keeps the clock ticking even without power.

Step 11



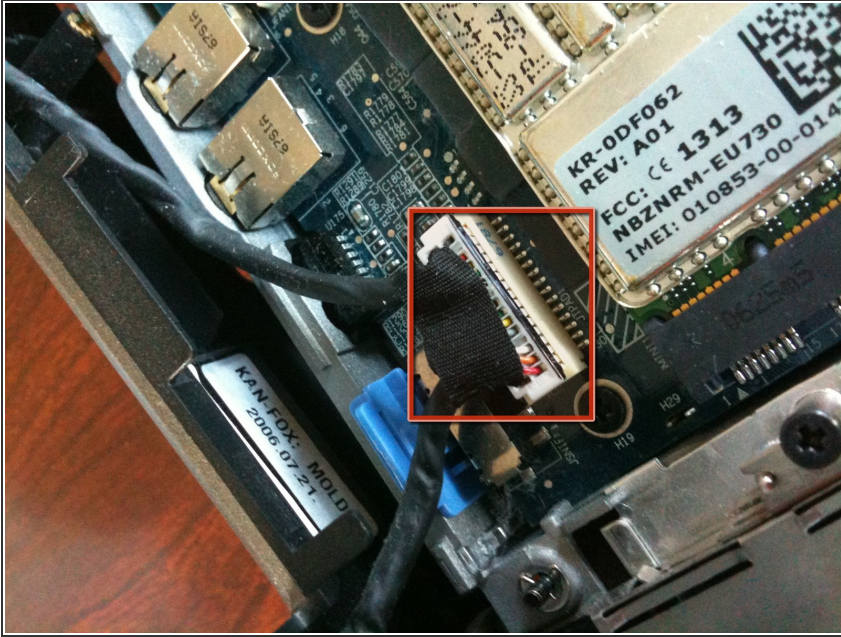
- With the screwdriver, remove the remaining screws on the bottom of the laptop.
- Remove all the screws with a "P" printed next to them on the palm rest side on the laptop.

Step 12



- From the back of the laptop, separate the palm rest from the bottom case.
- Then slide the top palm rest off the bottom assembly.

Step 13



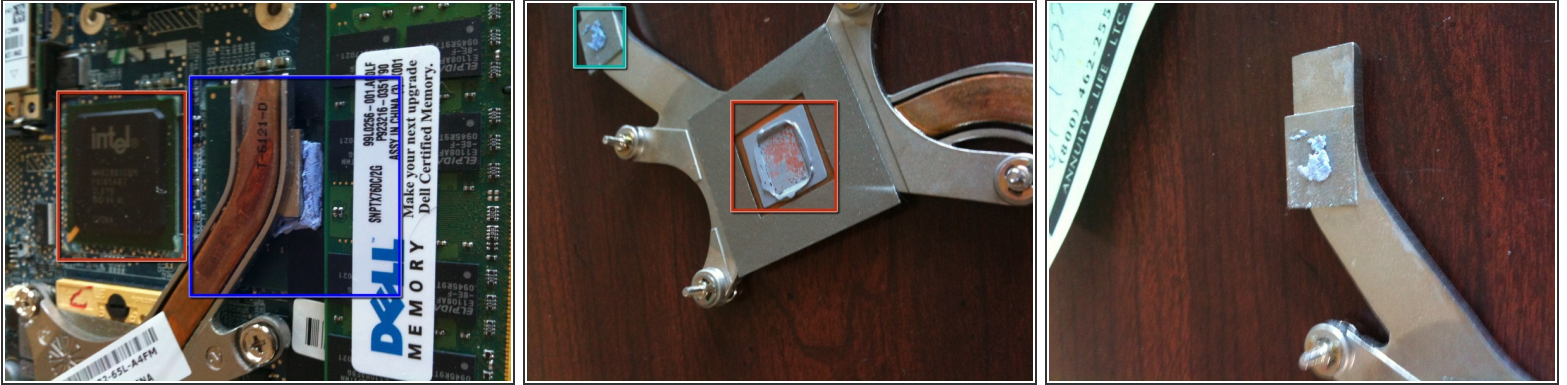
- Pull the track pad connector straight out of the motherboard. Don't pull on the cables.
- Use your fingernails, or some other object.

Step 14



- With a screwdriver, loosen the four screws.
- then 2
- then 3
- then 4
- Do not completely loosen a screw.
- Loosen each screw a little bit. Going from 1 then to 2 then to 3 and then to 4. Keep doing this until they are all loose.
- Loosening one screw without the other screws may damage the logic board.

Step 15



- The south bridge is located in the red square in the picture.
- The chipset is located in the blue square in the picture. The chipset combines the north bridge and the Intel GMA 950 into one die.
- The heat sink uses thermal paste and pads.
- The thermal pad is located in the green square in the picture.
- The thermal paste is located in the red square in the picture.

Step 16



- The sentence is not formal. It should be: The thermal pad is located in the first picture.
- 'Clean the heat sink and Core Duo and make sure to apply the Arctic Sliver 5 to the CPU core.
- More hot air escapes from the read, keeping the bottom cooler on my lap.

Step 17



- More pictures of the Core Duo

Step 18



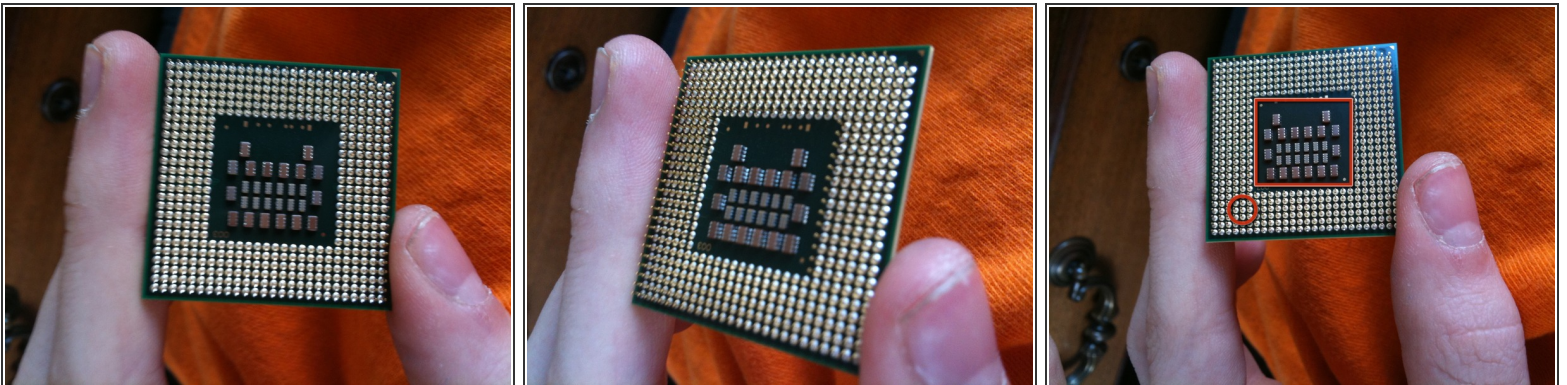
- The heat comes from the rectangles in the Core Duo.

Step 19



- Several more photos of the Intel Core Duo.

Step 20



- Pins and transistors
- The End
- <http://support.dell.com/support/edocs/sy...>
- The manual will explain how to get the Intel Core Duo but with better instructions.
- It will tell you how to get Intel Core Duo, but with better instructions.
- My guide should help visual learners though.